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PATENT ABSTRACTS OF JAPAN(21) Application number: **60142141**(51) Intl. Cl.: **B01D 13/01 B01D 13/00 G21**(22) Application date: **28.06.85**

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**(54) FILTRATION DEVICE
USING HOLLOW YARN
MEMBRANE**

(57) Abstract:

PURPOSE: To enable uniform supply of bubbles to a whole body of a hollow yarn membrane filter by providing a short bubbling pipe having second foam pores to above a mother bubbling pipe, and effectively conducting bubbling by feeding foams also to a hollow yarn membrane filter just above the bubbling mother pipe.

CONSTITUTION: A short bubbling pipe 121 is inserted and fixed from above a mother pipe 112 in a bubbling device 111 comprising a mother bubbling pipe 112 and plural branched bubbling pipe 113 branched therefrom, and a top end of the short pipes 121 is closed with a cover body 123 to form plural second foam pores 122 below the closed part. A foot end of the short pipe 121 is opened and extended to the same level position as

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